

**Declaration and Power of Attorney For Utility or Design Patent Application
English Language Declaration**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Multi-Dimensional Orthogonal Resource Hopping Multiplexing Communications Method and Apparatus

the specification of which is attached hereto unless the following box is checked:

was filed on _____ as

United States Application Number _____
and was amended on _____ (if applicable) or,

PCT International Application Number _____
and was amended on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code §119 (a-d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below. I have also identified below, by checking the ANo \equiv box, any foreign application for patent or inventors certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

			Priority Claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
2000-29400	Korea	30/05/2000	X	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
Additional foreign application numbers are listed on a supplemental priority sheet attached hereto.				

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

(Number) (Day/Month/Year Filed)

(Number) (Day/Month/Year Filed)

(Number) (Day/Month/Year Filed)

Additional provisional application numbers are listed on a supplemental priority sheet attached hereto.

I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s), or §365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

(Application No.)

(Filing Date)

(Status)

(patented, pending, abandoned)

(Application No.)

(Filing Date)

(Status)

(patented, pending, abandoned)

Additional U.S. or international application numbers are listed on a supplemental priority sheet attached hereto.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 101 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

The undersigned hereby authorizes the U.S. attorney or agent named herein to accept and follow instructions from either his foreign patent agent or corporate representative, if any, as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney or agent and the undersigned. In the event of a change in the persons from whom instructions may be taken, the U.S. attorney or agent named herein will be so notified by the undersigned.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the attorney(s) and/or agent(s) associated with the Customer Number provided below to prosecute this application and transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to that Customer Number:

CUSTOMER NUMBER 7055

The appointed attorneys include:

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Full name of sole or first inventor

SUNG, Dan-Keun

Inventor signature

Sung Dan Keun

Date
March 16, 2002

Address

Hanwool APT. 1503-103, Shirisung-Dong, Yusong-Gu, Taejon, 305-035, Republic of Korea ~~KTRX~~

Citizenship

Korea

(Supply similar information and signature for second and subsequent joint inventors.)

Full name of second joint inventor, if any <u>PARK, Su Won</u>	Second Inventor signature 	Date <u>March 18, 2002</u>
Address <u>#373-1, Kusong-Dong, Yusong-Gu, Taejon, 305-701, Republic of Korea</u>	<u>KR</u>	
Citizenship <u>Korea</u>		

THIS DOCUMENT IS CONFIDENTIAL

**VERIFIED STATEMENT (DECLARATION) BY A NONPROFIT ORGANIZATION
CLAIMING SMALL ENTITY STATUS UNDER 37 CFR 1.9(f) AND 1.27(d)**

Applicant or Patentee: SUNG, DAN-KEUN / PARK, SU-WON

Docket #:

Serial or Patent Number:

Group Art Unit:

Filed or Issued:

Examiner:

Title: MULTI-DIMENSIONAL ORTHOGONAL RESOURCE HOPPING MULTIPLEXING COMMUNICATIONS
METHOD AND APPARATUS

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

Name of Organization: KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY

Address: #373-1, KUSONG-DONG, YUSONG-GU, TAEJON, 305-701, REPUBLICK OF KOREA

Type of Organization

- University or other institution of higher education.
 - Tax exempt under Internal Revenue Service code (*26 USC 501(a) and 501(c)(3)*).
 - Nonprofit scientific or educational under statute of state of the United States of America.
Name of State: Statute:
 - Would qualify as tax exempt under Internal Revenue Service code (*26 USC 501(a) and 501(c)(3)*) if located in the United States of America.
 - Would qualify as nonprofit scientific or educational under statute of state of the United States of America if located in the United States of America.
Name of State: Statute:
- I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees under section 41(a) or (b) of Title 35, *United States Code* with regard to the matter described in:
- The specification filed herewith, with the title as listed above.
 - The patent application identified above.
 - The PCT international patent application identified above.
 - The patent number identified above.

I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above identified invention.

If the rights held by the above identified nonprofit organization concern are not exclusive, each individual, concern or organization having rights to the invention must file separate verified statements pertaining to their status as small entities and that no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9(e) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). Each person, concern or organization having any rights in the invention is listed below:

 No such person, concern or organization. Each such person, concern or organization as listed below:

FULL NAME:

- Individual
- Small Business Concern
- NonProfit Organization

ADDRESS:

FULL NAME:

- Individual
- Small Business Concern
- NonProfit Organization

ADDRESS:

 See attached sheet for additional person(s) concern(s) or organization(s).

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine, or imprisonment, or both, under section 1001 of Title 18 of the *United States Code*, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which the verified statement is directed.

Name and Title in Organization KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY	Date MARCH 20, 2002
Address #373-1, KUSONG-DONG, YUSONG-GU, TAEJON, 305-701, REPUBLICK OF KOREA	Signature 01 01 31

**VERIFIED STATEMENT (DECLARATION) BY A NONPROFIT ORGANIZATION
CLAIMING SMALL ENTITY STATUS UNDER 37 CFR 1.9(f) AND 1.27(d)**

Applicant or Patentee: SUNG, DAN-KEUN / PARK, SU-WON

Docket #:

Serial or Patent Number:

Group Art Unit:

Filed or Issued:

Examiner:

Title: MULTI-DIMENSIONAL ORTHOGONAL RESOURCE HOPPING MULTIPLEXING COMMUNICATIONS
METHOD AND APPARATUS

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

Name of Organization: ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE

Address: #161, GAJONG-DONG, YUSONG-GU, DAEJON, 305-350, REPUBLIC OF KOREA

Type of Organization

- University or other institution of higher education.
- Tax exempt under Internal Revenue Service code (*26 USC 501(a) and 501(c)(3)*).
- Nonprofit scientific or educational under statute of state of the United States of America.
Name of State: Statute:
- Would qualify as tax exempt under Internal Revenue Service code (*26 USC 501(a) and 501(c)(3)*) if located in the United States of America.
- Would qualify as nonprofit scientific or educational under statute of state of the United States of America if located in the United States of America.
Name of State: Statute:

I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in *37 CFR 1.9(e)* for purposes of paying reduced fees under *section 41(a) or (b) of Title 35, United States Code* with regard to the matter described in:

- The specification filed herewith, with the title as listed above.
- The patent application identified above.
- The PCT international patent application identified above.
- The patent number identified above.

I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above identified invention.

If the rights held by the above identified nonprofit organization concern are not exclusive, each individual, concern or organization having rights to the invention must file separate verified statements pertaining to their status as small entities and that no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under *37 CFR 1.9(c)* if that person made the invention, or by any concern which would not qualify as a small business concern under *37 CFR 1.9(d)* or a nonprofit organization under *37 CFR 1.9(e)*. Each person, concern or organization having any rights in the invention is listed below:

- No such person, concern or organization.
- Each such person, concern or organization as listed below:

FULL NAME:	<input type="checkbox"/> Individual <input type="checkbox"/> Small Business Concern <input type="checkbox"/> NonProfit Organization
ADDRESS:	

FULL NAME:	<input type="checkbox"/> Individual <input type="checkbox"/> Small Business Concern <input type="checkbox"/> NonProfit Organization
ADDRESS:	

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine, or imprisonment, or both, under *section 1001 of Title 18 of the United States Code*, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which the verified statement is directed.

Name and Title in Organization TELECOMMUNICATIONS RESEARCH INSTITUTE	Date MARCH 20, 2002
Address #161, GAJONG-DONG, YUSONG-GU, DAEJON, 305-350, REPUBLIC OF KOREA	Signature 6h k11 Pk